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**NABL ACCREDITED AS PER ISO/IEC 17025:2005**

Job No.: CECTC-JCP-SWD-2014-15

Date: 05.03.2014

## TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over storm water drain at 4th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17

Sample Identification : 10mm, 12mm, 16mm,20mm, 25mm TMT Fe 415 Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 05.03.2014

| S.No | Brand | Nominal size (dia in mm) | Mass per metre (kg/metre) | TENSILE STRENGTH | | |
|---|---|---|---|---|---|---|
| | | | | 0.20 % proof stress/ yield stress ($N/mm^{2)}$ | Tensile strength ($N/mm^{2)}$ | Elongation, percent on gauge length |
| 1 | Fe 415 | 10 | 0.615 | 506 | 536 | 16.0 |
| 2 | Fe 415 | 12 | 0.886 | 529 | 559 | 19.0 |
| 3 | Fe 415 | 16 | 1.57 | 547 | 575 | 20.0 |
| 4 | Fe 415 | 20 | 2.440 | 569 | 596 | 22.0 |
| 5 | Fe 415 | 25 | 3.840 | 587 | 624 | 23.0 |

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 90 days from the date of testing.

For Civil Experts

Authorised Signature



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Job No.: CECTC-JCP-2014-15

Date: 10.03.2014

## TEST REPORT

| | | |
|---|---|---|
| CLIENT | : | **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore. |
| AGENCY | : | **Sri.J.C.Prakash,** Contractor, Bangalore. |
| NAME OF THE WORK | : | Construction of Bridge over Storm Water Drain at 4th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore. |
| SAMPLE ID | : | Cement |
| SAMPLES SUPPLIED BY | : | AGENCY |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part -5) | 160 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part -5) | 380 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part 3) by the Le-Chatelier method | 1 mm | Not more than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part -4) | 29.00 % | - |

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⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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Job No.: CECTC-JCP-2014-15 Date : 10.03.2014

## TEST REPORT ON FINE AGGREGATES (SAND)
## IS 383-1970 (RA- 2002)

**Client** : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.

**Agency** : **Sri.J.C.Prakash,** Contractor, Bangalore.

**Name of Work** : Construction of Bridge over Storm Water Drain at 4th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.

Date of Testing : 10.03.2014

Material : Sand

Total Wt. of Aggregates **1500**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits For Zone-II |
|---|---|---|---|---|---|
| 10 | 0 | 0 | 0 | 100 | 100 |
| 4.75 | 90 | 6.00 | 6.00 | 94.0 | 90-100 |
| 2.36 | 132 | 8.80 | 14.80 | 85.2 | 75-100 |
| 1.18 | 206 | 13.73 | 28.53 | 71.5 | 55-90 |
| 600 Micron | 226 | 15.07 | 43.60 | 56.4 | 35-59 |
| 300 Micron | 378 | 25.20 | 68.80 | 31.2 | 8-30 |
| 150 Micron | 365 | 24.33 | 93.13 | 6.9 | 0-10 |

Information is furnished by the Agency

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Job No : CECTC-JCP-2014-15 Date : 10.03.2014

## TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

**Client** : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.
**Agency** : **Sri.J.C.Prakash,** Contractor, Bangalore.
**Name of Work** : Construction of Bridge over Storm Water Drain at 4th Cross Road and 12th A Main Road, Muthyala Nagar in JP Park Ward No.17, BBMP, Bangalore.
Date of Testing : 10.03.2014
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---|---|---|---|---|---|
| 80 | 0 | 0 | 0 | 100 | 100 |
| 40 | 498 | 3.32 | 3.32 | 96.68 | 95-100 |
| 20 | 8563 | 57.09 | 60.41 | 39.59 | 30-70 |
| 10 | 3652 | 24.35 | 84.75 | 15.25 | 10-35 |
| 4.75 | 1696 | 11.31 | 96.06 | 3.94 | 0-5 |

Information is furnished by the Agency

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